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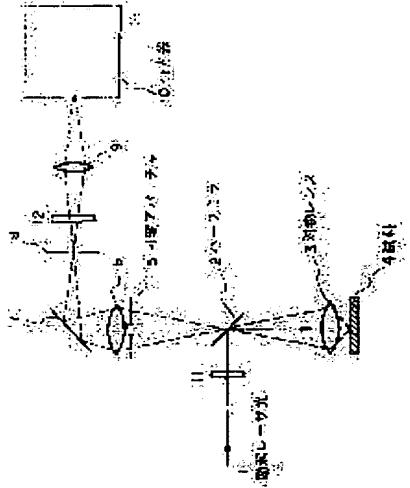
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(54) MICROSCOPE-LASER RAMAN SPECTROMETER

(57)Abstract:

PURPOSE: To determine the azimuth of a crystal without contact and without destruction quickly, by providing a variable aperture, whose light converging solid angle can be varied arbitrarily, in an optical path of scattered light, which is converted by an objective lens having sufficiently large numerical aperture.

CONSTITUTION: Light is converged at a large solid angle by an objective lens having sufficiently large numerical aperture. Then the light converging solid angle is variably adjusted by a variable aperture 5. The scattered light, which is transmitted through the variable aperture 5, is guided to a spectroscope 10 through following optical systems 6, 7, 8 and 9. In order to change the conditions of polarized light, a 1/2 wavelength plate 11 and a polarizing filter 12 are provided. Light intensities YY, YX, XY and XX are measured in this way. Thus the scattered light in an arbitrary solid angle can be divided, and the azimuth of a crystal can be quickly determined without contact and without destruction.



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